## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T203_08			
	gator(s): CTS, AMD	llside, terrac	ce, hummocks etc.): Flat					
	relief (concave, convex, none): flat		- Slope:	% / 5.0				
	gion : Interior Alaska Mountains	l at :	63.39879560					
		Lat	03.39079300					
	p Unit Name:		• V	s ● No ○	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology regetation , Soil , or Hydrology	significan naturally owing sa	itly disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No	pled Area						
	Hydric Soil Present? Yes O No		within a Wetland? Yes ○ No •					
Rema	Wetland Hydrology Present? Yes O No	<u>•</u> )	'	1011111 0 11	Citatia :			
	ETATION - Use scientific names of plants.	Absolut	e Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.	Picea glauca		_ 📙	FACU	Total Number of Dominant			
2.					Species Across All Strata:3 (B)			
3.					Percent of dominant Species That Are ORL FACILITY OF FACILITY (A/R)			
4. 5.		0	- =		That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.	Total Cove	0 er:20	_		Prevalence Index worksheet:			
C		r. 4	Total % Cover of: Multiply by:					
Sap	ling/Shrub Stratum 50% of Total Cover:	<u>10</u> 20	% of Total Cove	r: <u>4</u>	OBL Species 2 x 1 = 2			
1.	Picea glauca	8		FACU	FAC Species 30 x 2 = 60			
2.	Betula nana	35		FAC	FACUS paging 20.2 x 3 = 357.3			
3.	Salix glauca	10		FAC	FACU Species 29.2 x 4 = 116.8			
4.	Vaccinium uliginosum			FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Vaccinium vitis-idaea			FACIA	Column Totals: <u>180.3</u> (A) <u>536.1</u> (B)			
6.	Rhododendron tomentosum	_ 30		FACW	Prevalence Index = B/A = 2,973			
7.	Empetrum nigrum	$-\frac{10}{3}$		FAC				
	Andromeda polifolia (IAM)		-	FAC OBL	Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%			
10.	Andromeda politolia (IAM)		-	OBL	✓ Prevalence Index is ≤3.0			
	Total Cove  b Stratum 50% of Total Cover:	er: 31.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
	Lycopodium clavatum	0.1		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Anthoxanthum monticola ssp. alpinum	1		UPL	Indicators of hydric soil and wetland hydrology must			
3.	Bistorta plumosa			FACU	be present, unless disturbed or problematic.			
4.	Calamagrostis canadensis	1		FAC	Diet size (vadius on leveth worldth)			
5.	Carex bigelowii	0.1		FAC	Plot size (radius, or length x width)			
6.					(Where applicable)			
		0			% Bare Ground			
8.		0			Total Cover of Bryophytes			
9.		0						
		0	_		Hydrophytic			
10.		er: 2.3			Vegetation			
10.	<b>Total Cove</b> 50% of Total Cover: _		_	r: 0.46	Present? Yes • No O			

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SOIL Sampling Point: SW13\_T203\_08

Brofilo Doccrinti	ioni (Dossribo to t	the depth p	anded to docu	mont the indicator or co	nfirm the al	beanes of indic	ators)		10iiit. 51115_1205_00		
		the depth no <b>Matrix</b>	edea to uocu	ment the indicator or cor	nfirm the at dox Feati		ators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3	10YR	5/3	50					Sandy Loam			
3-9	2.5Y	4/6	100					Sandy Loam			
9-16	2.5Y	4/3	100					Sandy Loam			
16-20	2.5Y	5/2	100					Loamy Sand			
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ced Matrix <sup>2</sup> Location	ı: PL=Poi	– ——— re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric Sc	oils: <sup>3</sup>				
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip	` '			Alaska Alpine s	wales (TA	(5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remarks	3)		
Thick Dark	Surface (A12)			3 Or - Indicator of	I d . a a b .		· > mulm	:	J I		
Alaska Gle	eyed (A13)			<ul> <li>One indicator of and an appropriat</li> </ul>				nary indicator of wetland hy esent	drology,		
Alaska Red	. ,			<sup>4</sup> Give details of co			•				
☐ Alaska Gle	yed Pores (A15	j)		*GIVE UELAIIS OF CO	)IOI Chang	Je III Kemark	.s				
Restrictive Laye	er (if present):	_	_		_	_	_				
Type:								Hydric Soil Present?	Yes O No 💿		
Depth (inch	nes):										
Remarks:											
no hydric soil i	ndicators										
HYDROLO	GY										
Wetland Hydi		tors:						Secondary Indicate	ators (two or more are required)		
-	tors (any one i		t)						ed Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on /	Aerial Imager	ry (B7)	Drainage Pa	atterns (B10)		
High Wate	er Table (A2)			Sparsely Veg	etated Co	ncave Surfac	ce (B8)	Oxidized Rh	izospheres along Living Roots (C3)		
Saturation	Saturation (A3)				s (B15)			Presence of	Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Su	lfide Odor	· (C1)		Salt Deposit	rs (C5)		
Sediment	Deposits (B2)			☐ Dry-Season V	Nater Tab	le (C2)		Stunted or S	Stressed Plants (D1)		
Drift Depo	osits (B3)			Other (Explai	n in Rema	arks)		Geomorphic	Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aqu	uitard (D3)		
☐ Iron Depo	sits (B5)							Microtopogr	raphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutral	Test (D5)		
Field Observa	ations:		`								
Surface Water	r Present?		No ●	Depth (inche	:s):						
Water Table P	Present?	Yes C	No •	Depth (inche	:s):		Wetlar	nd Hydrology Present	? Yes O No 💿		
Saturation Pre (includes capil		Yes C	No ●	Depth (inche	:s):						
Describe Recor	ded Data (strea	am gauge,	, monitor we	ell, aerial photos, prev	vious insp	ection) if ava	ilable:				
Remarks:											
no wetland hyd	drology indicate	rs									

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